

## DESCRIPTION

APG 1750 S NEUTRAL is a blend of specially formulated high temperature resins, color pigments, and additives designed to produce high gloss mold surfaces. APG 1750 S NEUTRAL allows for rapid build-up of gel coat and gives hard, durable, impact and chemical resistant tools and molds. Back-up reinforcement may be applied after a firm gel is obtained. This normally takes about 75 – 115 minutes after application. It is most commonly used in high temperature tools for epoxy infusion, cultured marble molds, thermoforming molds, FRP molds, and RTM mold repair. It contains no styrene and is low odor.

## PROPERTIES

- High gloss
- Rapid buildup
- High service temperature
- Styrene-free
- Impact and chemical resistant
- Excellent finishing and after work
- Epoxy compatible
- Can be used as top coat on non post-cured epoxy

PHYSICAL PROPERTIES				
		APG 1750 S NEUTRAL	PMEK Hardener	MIXED
Composition		Polyester Resin	PMEK	
Mix ratio by weight		100	2	
Aspect		Liquid	Liquid	Liquid
Colour		Light beige	Colorless	Light beige
Density at 25°C	g/cc	1.30	1.20	1.30
Thixotropic index		7.2		
Pot life at 25°C (102 g)	minutes			22

## PROCESSING CONDITIONS

- Thoroughly blend 100 parts resin with 2 parts catalyst at indicated ratio for 1 to 2 minutes in a clean dry container.
- Carefully scrape the surfaces while blending to ensure complete mixing and uniformity.
- APG 1750 NEUTRAL can be coloured to match your desired mould colour.

**ONLY** polyester based colour pastes are compatible. Adding 1% (in weight) of colour paste gives a pure colour.

## SURFACE PREPARATION AND APPLICATION

- APG 1750 S NEUTRAL should always be applied to properly prepared surfaces with mold release applied to surfaces as necessary.
- Product is designed to be applied by brush, flow coating or spray (has been successfully applied with an ES Manufacturing G860 HVLP spray gun at 3 / 4 bars with a 2.5 mm nozzle).
- For best performance, APG 1750 S NEUTRAL should be sprayed in multiple passes of 0.07 – 0.15 mm film thickness each to a final film thickness of 0.6 mm. Wait 2 – 3 minutes between passes. This technique minimizes air entrapment and pinholes in the gel coat.

Wait for about 90 minutes minimum before starting lamination. Tests have been performed giving a good adhesion after 36 hours at 20°C

MECHANICAL AND THERMAL PROPERTIES (1)			
Hardness at demold	ASTM D-2240	Shore D	87
Coefficient of thermal expansion	ASTM E-1545	10 <sup>-6</sup> K <sup>-1</sup>	120
Service temperature		°C	204

(1) Average values on standard specimens cured 3 hours at (150°C)

## HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products:

- Ensure good ventilation
- Wear gloves, safety glasses and waterproof clothes

For further information, please consult the product safety data sheet.

## STORAGE CONDITIONS

This product has a shelf life of 6 months as indicated by the expiration date on the container when stored in original unopened containers between 15 – 25°C. Any opened can must be tightly closed.

## PACKAGING

APG 1750 S Neutral Resin
1 X 4.7 kg
2 X 4.7 kg

## GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.

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